

REMARKS

Claims 1, 4-8, 19, 22-26, 37, 40-44 and 55-60 are pending in this application. By this Amendment, claims 1, 19 and 37 are amended, and claims 2, 3, 20, 21, 38 and 39 are canceled without prejudice to or disclaimer of the subject matter disclosed therein. Reconsideration of the application is respectfully requested.

The Office Action rejects claims 1, 19 and 37 under 35 U.S.C. §112, second paragraph. The claims are amended to overcome the rejection. Accordingly, withdrawal of the rejection of the claims under 35 U.S.C. §112, second paragraph, is respectfully requested.

The Office Action rejects claims 1, 2, 19, 20, 37, 38 and 55-60 under 35 U.S.C. §103(a) over Bollman (U.S. Patent No. 5,218,350) in view of Udea (U.S. Patent No. 4,935,879); claims 3, 21 and 39 under 35 U.S.C. §103(a) over Bollman and Udea, and further in view of Regan (U.S. Patent No. 6,611,264); claims 4, 5, 8, 22, 23, 26, 40, 41 and 44 under 35 U.S.C. §103(a) over Bollman and Udea in view of Duluk et al. (U.S. Patent No. 6,597,363); and claims 6, 7, 24, 25, 42 and 43 under 35 U.S.C. §103(a) over Bollman and Udea in view of Schilling et al. (U.S. Patent No. 6,236,405). The rejections are respectfully traversed.

In particular, none of the applied references, either alone or in combination, disclose or suggest a game system and associated computer-usable program and method with a processor that includes an index number setting section which maps a texture on a virtual object, and a drawing section, wherein the virtual object being a polygon having a size equal to a size of a display screen or a size of a block obtained by dividing a display screen into blocks, as recited in independent claims 1, 19 and 37.

Bollman teaches an imaging processing method for dodging with softened edge transitions wherein an image appearance characteristics for display are defined by two data sets, a first standard data set for the image, and a second set for the area to be dodged, where

the dodged area is separated from the remainder of the image by a series of edges (Abstract). Moreover, Bollman merely discloses transforming lookup tables (LUT) values to luminance/chrominance in the particular area (dodged area in Fig. 1), and does not transform the image information of an original image for the entire display screen. In other words, Bollman does not disclose transforming the image information of an original image for the entire display screen using a polygon having a size equal to that of the display screen or performing an index color texture-mapping repeatedly using a polygon having a size equal to a size of a block obtained by dividing a display screen to blocks, as recited in independent claims 1, 19 and 37.

Udea teaches a texture-mapping apparatus for the real-time display of a figure in which an animated image has been mapped (Abstract). However, Udea does not teach transforming the image information of an original image. Udea merely discloses a texture-mapping based on the coordinates data for texture in every object corresponding to a geometry processed object but not mapping an index texture for the entire display screen or each block divided a display screen into blocks. Moreover, Udea requires performing gamma correction through either performing processing other than texture-mapping or using dedicated hardware (Background Art). Accordingly, the structure of Udea increases the processing load as compared to Applicant's invention because the transformation of image information of an original image via texture-mapping can be carried out at a high speed by mapping an index texture onto a virtual object. In texture-mapping, a virtual object being a polygon having a size equal to a size of a display screen or having a size equal to a size of a block obtained by dividing a display screen into blocks, it is possible to carry out the transformation of the image for the entire display at a high speed. Also, with the index texture-mapping onto a virtual object, geometry processing, which is required in a conventional drawing process, becomes unnecessary. Moreover, texture-mapping onto a

virtual object allows saving memory capacity in a storage section by setting the image information of an original image as an index number for a lookup table (LUT). Especially, with the virtual object being a polygon having a size equal to that of each block, the information load in the LUT may be remarkably reduced. Accordingly, Udea fails to cure deficiencies in Bollman in disclosing or rendering obvious the features of independent claims 1, 19 and 37.

Regan teaches a deferred scanline converter system that receives triangle data from a front end processor, identifies the triangles that are in competition for a given pixel location, and determines the winning triangle from among the competing triangles to generate the pixel for that pixel location (Abstract).

Duluk teaches graphics processors and methods that encompass numerous substructures including specialized subsystems, subprocessors, devices, architectures, and corresponding procedures (Abstract).

Schilling teaches a texture-mapping unit that generates texture coordinates and associated Red, Blue, and Green (RGB) values in response to coordinates received from a rasterizer (Abstract).

Accordingly, none of these additional references, alone or in combination, cure deficiencies in Udea and Bollman in disclosing or rendering obvious the subject matter of claims 1, 4-8, 19, 22-26, 37, 40-44 and 55-60, including the subject matter of independent claims 1, 19 and 37. As such, a combination of the applied references would not arrive at the claimed invention.

Because it would not have been obvious to combine the applied references to arrive at the subject matter of independent claims 1, 19 and 37, independent claims 1, 19 and 37, and their dependent claims, are patentable over a combination of the applied references. As such, withdrawal of the rejections of the claims under 35 U.S.C. §103(a) is respectfully requested.

In view of the foregoing, it is respectfully submitted that this application is in condition for allowance. Favorable reconsideration and prompt allowance of claims 1, 4-8, 19, 22-26, 37, 40-44 and 55-60 are earnestly solicited.

Should the Examiner believe that anything further would be desirable in order to place this application in even better condition for allowance, the Examiner is invited to contact the undersigned at the telephone number set forth below.

Respectfully submitted,



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Attachment:

Petition for Extension of Time

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